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Title: Carbonates in Provenance Studies

Abstract:

Provenance studies have used Sr isotopes ($^{87}\text{Sr}/^{86}\text{Sr}$) of silicate source rocks as a link to their eroded basinal equivalents. This technique, however, cannot identify the proportional inputs from different watersheds or define more precisely sedimentation events due to tectonic or climatic change. Erosion of carbonate rocks dominates the Sr input within basin drainage. This phenomenon potentially can be used through $^{87}\text{Sr}/^{86}\text{Sr}$ ratios to reconstruct paleohydrology of the entire basin and trace watershed inputs and depositional patterns in continental basins.

Place: Seminario de Estratigrafía E-2

Date: June 17, 2010

Time: 12-14 h